

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	9072	(handle or grip or gripping) near5 (transparent or translucent or clear or seethru or seethrough or see adj thru or see adj through)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/24 16:04
L3	302	2 with (cylinder or cylindrical)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/24 16:08
L4	33	3 same (roll or roller or rolled)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/24 16:09
L5	448	2 with (hollow or tubular)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/24 16:08
L6	15	5 same (roll or roller or rolled)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/24 16:09
L7	12	6 not 4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/24 16:10
L8	708	3 5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/24 16:10
L9	663	8 not (4 6 7)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/24 16:10



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**United States Patent** [19]  
**Huang**

[11] **Patent Number:** **5,168,600**  
 [45] **Date of Patent:** **Dec. 8, 1992**

[54] **TOOL HANDLE WITH SHOW BILL WINDOW**

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[21] **Appl. No.:** 838,347

[22] **Filed:** Feb. 20, 1992

[51] **Int. Cl.<sup>5</sup>** ..... G09F 3/18

[52] **U.S. Cl.** ..... 16/110.005; 16/111 R; 40/660

[58] **Field of Search** ..... 40/660, 661, 650, DIG. 913; 16/110.5, 111 R, DIG. 12, DIG. 19; 81/489, DIG. 5

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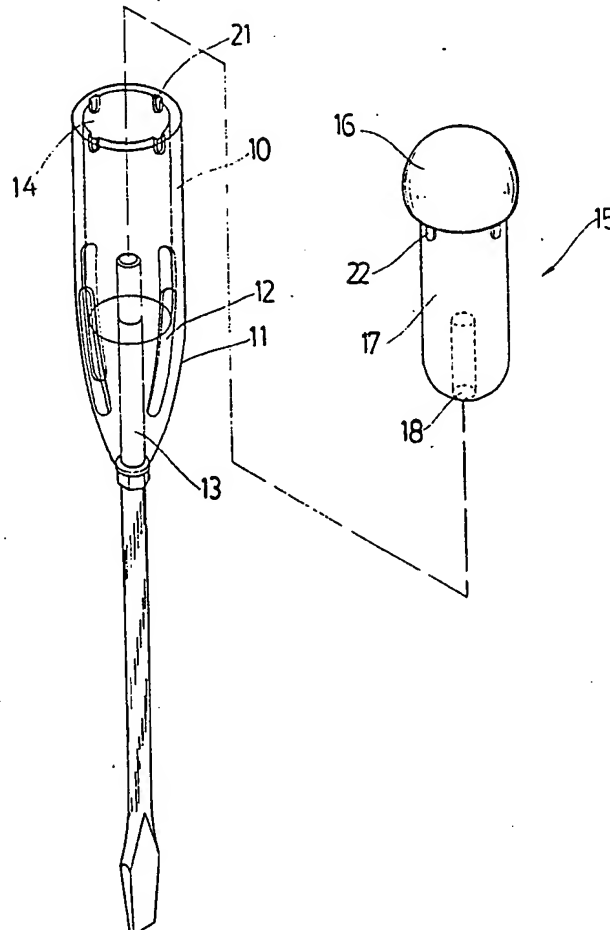
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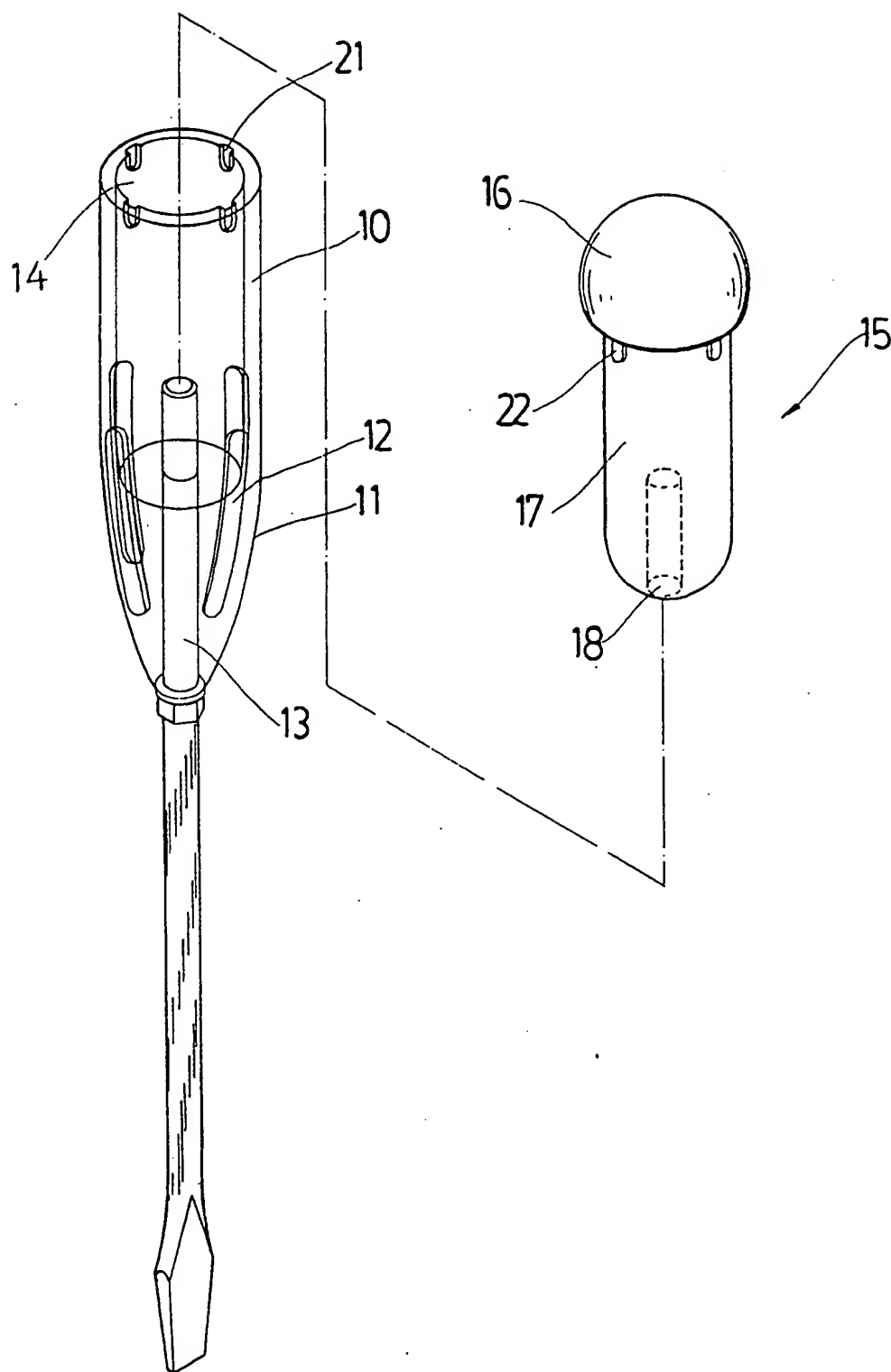
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[57] **ABSTRACT**

A tool handle comprised of a hollow, transparent handle body defining a chamber therein inserted with a plug, the handle body having a plurality of raised stripes longitudinally disposed around the outer wall surface thereof for positive grip, and a plurality of retaining notches internally disposed around a top opening thereof, the plug comprising an elongated rod vertically extending downwards from a spherical head and inserted through the top opening into the chamber, the elongated rod having a bottom hole for holding the tool bit inserted into a bottom hole on the handle body, a plurality of projecting strips respectively engaged in the retaining notches, and a peripheral surface for marking advertising matters or attaching an advertising label for showing through the transparent handle body, the spherical head being stopped above the top opening and having a peripheral wall surface disposed flush with a peripheral wall surface of the handle body for comfortable grip.

**1 Claim, 2 Drawing Sheets**





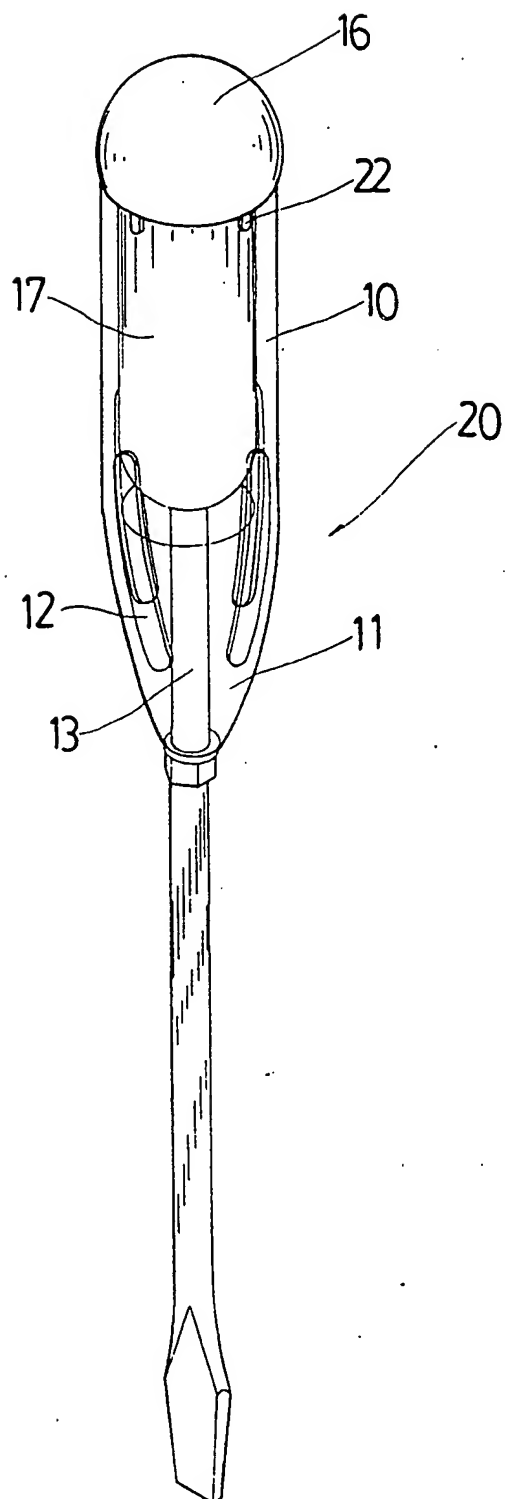


FIG 2

## TOOL HANDLE WITH SHOW BILL WINDOW

### BACKGROUND OF THE INVENTION

The present invention relates to a handle for a hand tool, and more particularly, the present invention relates to a tool handle which is comprised of a hollow, transparent handle body and a plug. The plug has an elongated rod inserted into a chamber inside the handle body with the peripheral wall surface thereof marked with advertising matters or adhered with an advertising label for showing through the transparent handle body.

A handle tool generally has a handle for positive and comfortable grip. For advertising purposes, a hand tool manufacturer may mark the handle of a hand tool with advertising matters or adhere it with a small label. However, the label or advertising matters on the outer wall surface of a handle may be rubbed off easily during the use of the hand tool. If embossed advertising matters are directly formed on the outer wall surface of a handle, they may make grip uncomfortable.

### SUMMARY OF THE INVENTION

The present invention has been accomplished under the aforesaid circumstances. It is therefore an object of the present invention to provide a tool handle which has a show board surface at the inside for marking advertising matters or attaching an advertising label. It is another object of the present invention to provide a tool handle which has means for positive and comfortable grip.

According to the present invention, there is provided a tool handle which is generally comprised of a hollow, transparent handle body and a plug. The handle body defines a chamber therein for inserting the plug through a top opening thereof, a plurality of raised stripes longitudinally disposed around the outer wall surface thereof for positive grip, and a plurality of retaining notches internally disposed around the top opening thereof. The plug comprises an elongated rod vertically extending downwards from a spherical head and inserted through the top opening into the chamber of the handle body, which elongated rod has a bottom hole for holding the tool bit inserted into a bottom hole on the handle body, a plurality of projecting strips respectively engaged in the retaining notches on the handle body for positioning, and a peripheral surface for marking advertising matters or attaching an advertising label for showing through the transparent handle body. The spherical head of the plug is stopped above the top opening and has a peripheral wall surface disposed flush with the peripheral wall surface of the handle body for comfortable grip.

### BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is an exploded view of a tool handle embodying the present invention; and

FIG. 2 is a perspective assembly view thereof.

### DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring to FIGS. 1 and 2, therein illustrated is a screw driver 20 as constructed in accordance with the present invention. The handle of the screw driver 20 is generally comprised of a handle body 10 and a plug 15.

The handle body 10 of the tool handle is made from a transparent plastic material through the process of injection molding, in the shape of a hollow cylinder, defining therein a cylindrical chamber 14 for inserting the plug 15, and having a tapered portion 11 at the bottom end thereof (which has a hole, not shown, on the bottom end thereof for inserting a tool bit 13), a plurality of raised stripes 12 longitudinally disposed around the outer wall surface thereof for positive grip, and a plurality of retaining notches 21 internally disposed around the top edge thereof for fastening the plug 15. The plug 15 is comprised of an elongated rod 17, and a spherical head 16 at the top of the rod 17. The spherical head 16 has an outer diameter fitting the handle body 10. The elongated rod 17 is made in size and shape tightly fitting the cylindrical chamber 14. The elongated rod 17 of the plug 15 comprises a plurality of projecting strips 22 around the peripheral surface thereof adjacent to the spherical head 16 and at locations corresponding to the retaining notches 21 on the handle body 10, and a cylindrical bottom hole 18 on the bottom edge thereof for fastening the bit 13 which is inserted through the hole (not shown) on the tapered portion 11 of the handle body 10. By inserting the elongated rod 17 of the plug 15 into the cylindrical chamber 14 with the projecting strips 22 respectively engaged into the retaining notches 21, permitting the tool bit 13 to be inserted into the cylindrical hole 18, the plug 15 becomes firmly secured in the handle body 10 with the outer wall surface of the spherical head 16 disposed flush with the outer wall surface of the handle body 10 (see FIG. 2).

By means of the aforesaid arrangement, marks, patterns and descriptive or advertising words can be made on the outer wall surface of the elongated rod 17 of the plug for showing. An advertising label may be directly adhered to the outer wall surface of the elongated rod 17 for showing through the transparent handle body 10. Therefore, the transparent handle body 10 simultaneously serves as an advertising show window. Further, the design of the spherical head 16 of the plug 15 makes the screw driver 20 comfortable to hold; the design of the raised stripes 12 on the handle body 10 ensures positive grip.

I claim:

1. A handle for a hand tool, the improvement comprising a hollow transparent handle body for holding a tool bit, and a plug inserted in said handle body at the top, said handle body having a chamber therein, a top opening above said chamber, a plurality of raised stripes longitudinally disposed around an outer wall surface thereof, and a plurality of retaining notches around said top opening, said plug comprising an elongated rod vertically extending downwards from a spherical head and inserted through said top opening into said chamber, said elongated rod having a plurality of projecting strips around a peripheral top edge thereof respectively engaged in said retaining notches, a peripheral surface for marking advertising matter for showing through said transparent handle body, and a bottom hole for inserting said tool bit, said spherical head being stopped above said top opening and having a peripheral wall surface disposed flush with the outer wall surface of said handle body.

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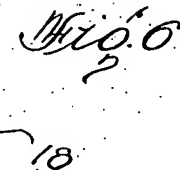
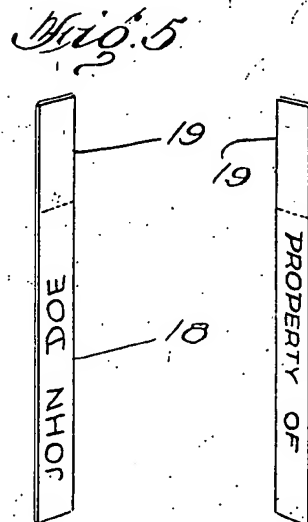
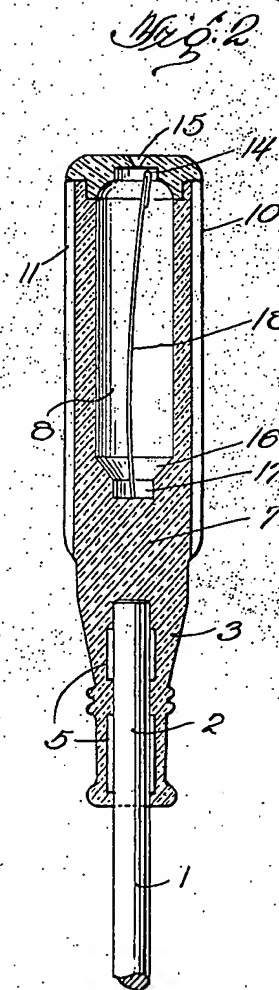
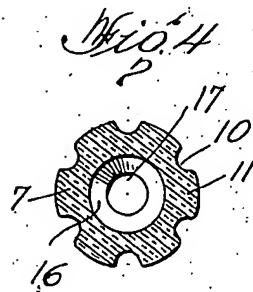
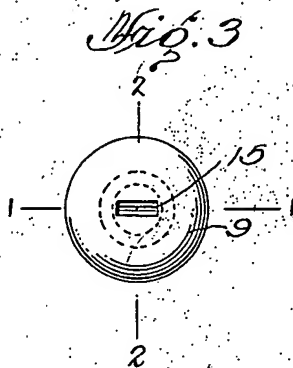
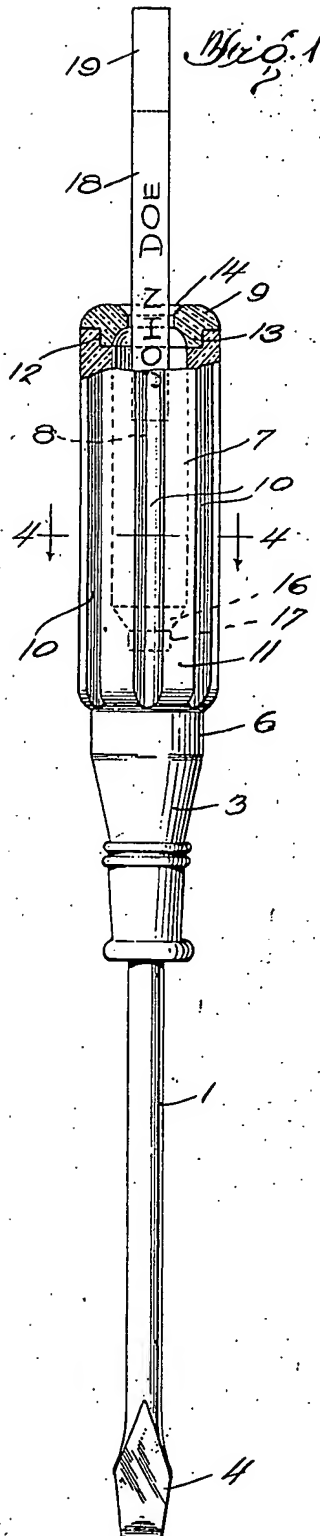
Aug. 16, 1938.

J. DAVIS

2,127,163

TOOL HANDLE

Filed April 26, 1938



Inventor  
Joseph Davis  
By *Edmund Stuart*  
Attorney

## UNITED STATES PATENT OFFICE

2,127,163

## TOOL HANDLE

Joseph Davis, South Orange, N. J.

Application April 26, 1938, Serial No. 204,423

6 Claims. (Cl. 40-19)

My invention relates to new and useful improvements in tools provided with handles, and more particularly to the handles of such tools.

Heretofore, a name, initials, or other identifying indicia have been either stamped, painted, or engraved on the handle of the tool. This method has been found to be unsatisfactory due to the fact that the identifying indicia may be scraped off or, after considerable use, become obliterated from wear. A handle formed according to my invention is so constructed that any amount of handling will not affect the identifying indicia, thus providing a permanent means of identification.

The primary object is to provide such a tool with a transparent handle and to provide a simple, inexpensive, and practical means for applying a name or other identifying label in the transparent handle in order that the owner may readily identify his tool.

Another object of my invention is to provide means for securing the name or identifying label in the handle so that the name or label cannot be removed or changed without causing readily noticeable damage to the handle, which damage defaces the handle and is not readily reparable.

Another object of my invention is to construct the handle in such a manner that upon the sale of a tool of this type either the merchant or the purchaser may quickly and easily insert the identifying label in the handle, so that it will remain as a permanent identification means.

A further object of the invention is to provide, in conjunction with a hollow transparent handle for a tool, an identifying slip so proportioned that it may be inserted in the handle temporarily, and when desired may be removed, cut down to a size and shape which will be entirely contained within the handle and prevent subsequent removal.

A still further object of my invention is the provision of a hollow handle having a transparent side panel and a permanently attached end capable of admitting a label slip but satisfactorily preventing its subsequent removal.

Another object of my invention is to form a tool handle of a transparent thermoplastic material which is cast on the tool and thus provide a strong and permanent connection between the handle and the tool, and which is formed with a recess adapted to receive the identifying means.

With the foregoing and other objects in view which will appear as the description proceeds, my invention consists in the novel features hereinafter described in detail, illustrated in the accompanying drawing, and particularly pointed

out in the appended claims. My invention, as illustrated by way of example in the accompanying drawing, is shown applied to a screw driver; but it is apparent that it is equally applicable to other tools having handles. Moreover, it will be understood that the invention is not limited to the details disclosed but includes all such variations and modifications as fall within the spirit of my invention and the scope of the appended claims.

In the drawing:

Fig. 1 is a side view partly in section on the line 1-1 of Fig. 3 showing a screw driver having a transparent handle, and the identifying means shown partially inserted in the handle;

Fig. 2 is a longitudinal sectional view through the handle portion of the screw driver, the section being taken along line 2-2 of Fig. 3;

Fig. 3 is an end view of the handle;

Fig. 4 is a transverse sectional view taken substantially along the line 4-4 of Fig. 1 in the direction of the arrows; and

Figs. 5 and 6 are perspective views of the opposite sides of the identifying means.

As shown in detail in the drawing, the improved screw driver includes a shank 1 comprising an inner end portion 2 disposed in a portion of handle 3, and an outer end portion flattened and shaped at its extreme end to provide a bit 4. The end portion 2 of the shank is formed with ribs 5, providing a fast nonrotatable and secure connection between the shank covering portion 3 and the shank itself. The complete handle 6, including shank covering portion 3, main portion 7, and cap 9, is cast of clear or colored transparent electrical insulating material, with the usual series of longitudinally extending grooves 10 on the main portion 7 providing ribs 11. The portion 3 is cast around the shank 2 instead of a common method of driving the shank into the said shank-covering portions. The main portion 7 must be transparent, at least over some of its surface while the shank covering portion 3 and the cap 9 may be cast of nontransparent material or enameled. In order to match the shank covering portion with the cap it is preferable to use the same color of enamel on both.

The handle portion 7 has a central cavity 8. The outer end of the cavity 8 has a peripheral groove 12 forming a seat for the cap 9.

The inner face of the cap 9 has a circular rib 13 which fits tightly within the groove 12 and may be attached permanently by cement or other means. Centrally the inner face of the cap is concave and at the center provided with a cylin-

drical recess 14. A narrow slot 15 connects the recess 14 with the outer surface of the cap. This slot flares outwardly, as shown in Figs. 2 and 3 to facilitate introduction of the label slip but prevent its removal. The slot is in a plane parallel to opposite ribs 11 which constitute transparent windows serving as lenses through which the label slip is visible and they may serve to magnify the latter.

At the opposite inner end of the central cavity 8 there is a tapering recess 16, extending in diminishing cross-section therefrom, which recess 16 terminates in an extreme cylindrical recess 17 adapted to center the inserted label slip. The slot 15 is very narrow, but sufficient to permit the paper label 18 to be inserted into cavity 8 and preventing the paper label from falling out easily. One end of the paper label comes to rest in the cylindrical recess 17 and the other end rests in the cylindrical recess 14. The cavity 8 being much larger than the paper label, allows the label to bend and float or turn freely within recess 8, making the label more attractive and ornamental.

I provide a paper label or slip 18. Originally, this is long enough to extend all the way through the cavity 8 with its inner end in the recess 17 but the opposite end outside of the cap 9. After the main portion of the slip has been appropriately marked the slip is inserted as indicated above and the operator then observes whether the marking is satisfactory. If so the slip is removed and tab 19 cut off or bent backward leaving the slip with a length shorter than the length of the cavity 8. When the slip is next inserted it passes completely within the cavity and is prevented from inadvertent removal by the form and size of the slot 15. As an indication of the proper length, the slip is marked or perforated as shown at 20 on Figs. 5 and 6.

This arrangement is an effective way of providing suitable identifying marks permanently in the handle of a tool or the like and may ob-

viously be varied within the scope of the following claims.

What I claim is:

1. A handle for a tool or the like comprising a body portion having a transparent side wall, a cavity within said portion, a cap for the cavity, said cap having a restricted opening and an identifying member insertable through said restricted opening.
2. A handle for a tool or the like comprising a body portion having a transparent ribbed side wall, a cavity within said portion, a cap for the cavity, said cap having a restricted opening and an identifying member insertable through said restricted opening.
3. A handle for a tool or the like comprising a body portion having a transparent side wall of electrical insulating material, a cavity within said portion, a cap for the cavity, said cap having a restricted opening and an identifying member insertable through said opening.
4. A thermoplastic handle for a tool or the like comprising a body portion having a transparent side wall, a cavity within said portion, a cap for the cavity, said cap having a restricted opening and an identifying member insertable through said restricted opening.
5. A handle for a tool or the like comprising a body portion having a transparent side wall, a cavity within said portion, a central tapering recess in the inner end of said cavity, a cap for the cavity, a central tapering recess in said cap, a restricted opening through the cap, and a slip or label insertable in the cavity with its ends in said recesses.
6. In combination, a handle for a tool or the like comprising a body portion having a transparent side wall and a cavity within said portion, a slotted closure for the cavity and an identifying slip of greater length than the cavity, said excess length being removable or bendable to permit the passage of the slip completely inward of the slotted closure.

JOSEPH DAVIS.



Sept. 26, 1939.

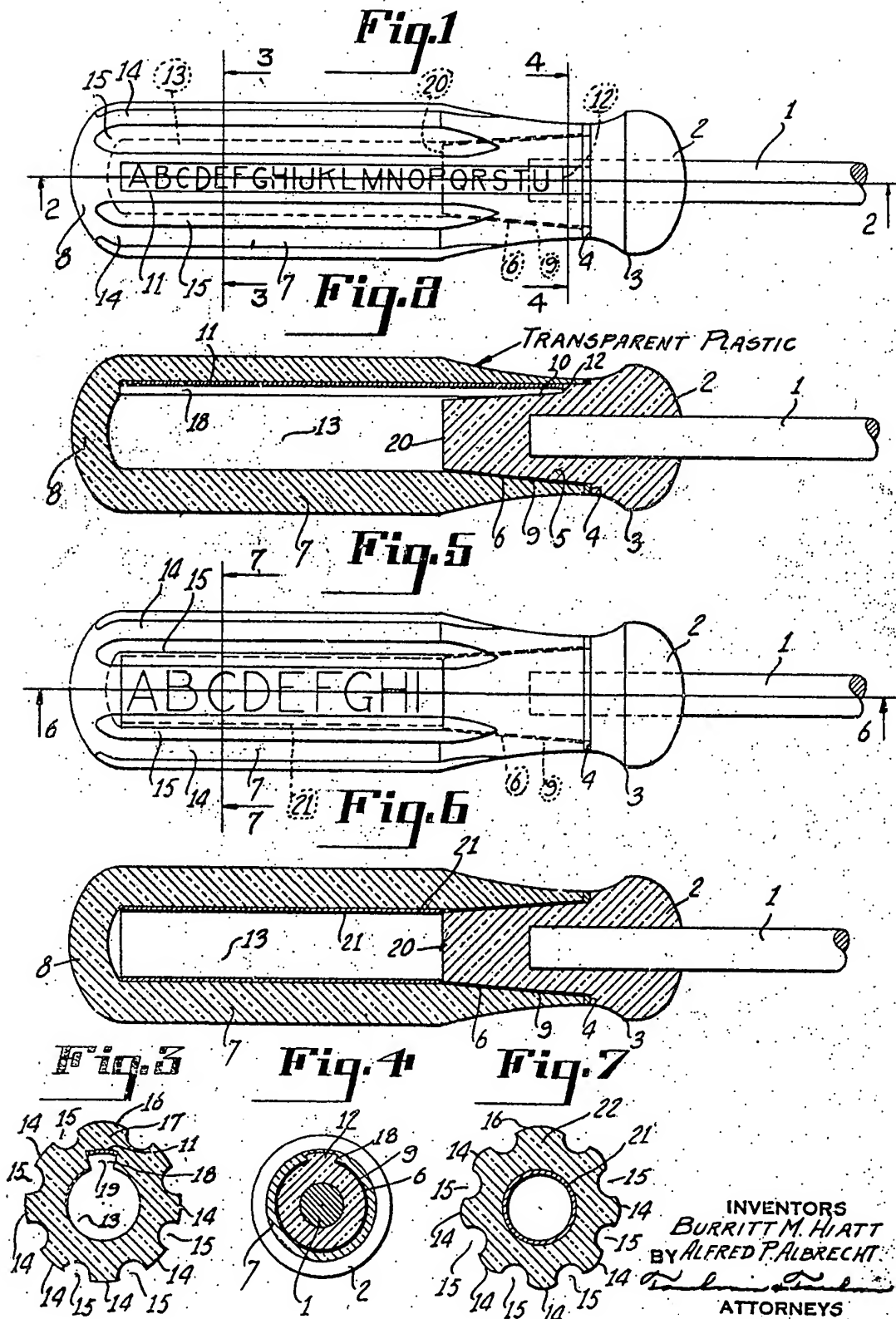
B. M. HIATT ET AL

2,173,942

TOOL HANDLE

Filed May 24, 1938

2 Sheets-Sheet 1



Sept. 26, 1939.

B. M. HIATT ET AL

2,173,942

TOOL HANDLE

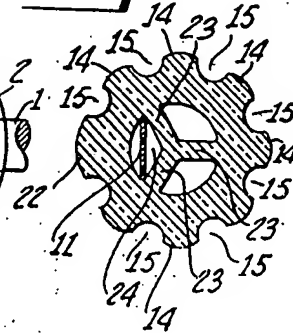
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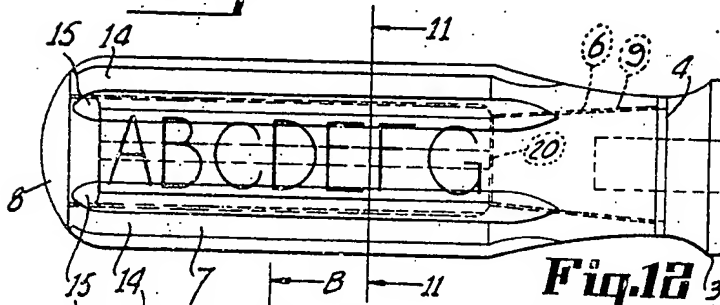
**Fig. 8**



**Fig. 9**



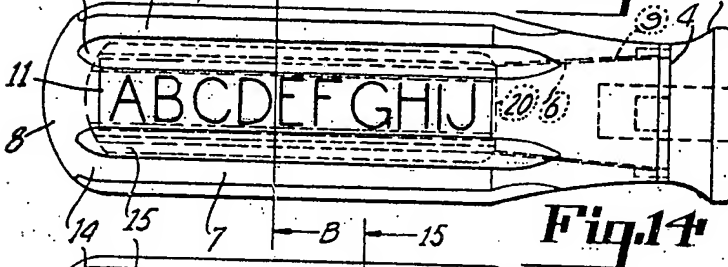
**Fig. 10**



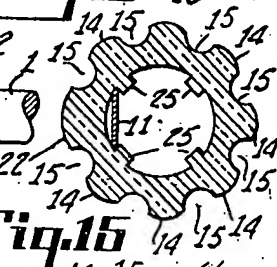
**Fig. 11**



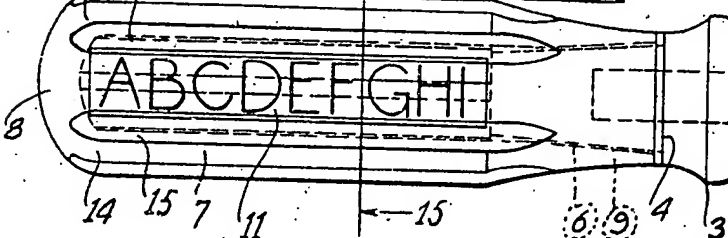
**Fig. 12**



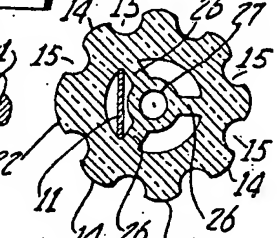
**Fig. 13**



**Fig. 14**



**Fig. 15**



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## UNITED STATES PATENT OFFICE

2,173,942

## TOOL HANDLE

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Application May 24, 1938, Serial No. 209,739

9 Claims. (Cl. 40—19)

This invention relates to handles for tools and particularly for screw drivers.

It is the object of this invention to provide a transparent handle arranged to support internally various types of media on which are printed or otherwise displayed instructions and advertising which can be seen through the transparent handle.

It is a further object to provide such a handle that is so formed as to act as a lens to magnify the printing on the inside of the handle to make it easily legible on the outside.

It is a further object of this invention to have a hollow handle in which the legends can be readily inserted and maintained in an exact position.

It is a further object to provide such a handle which is reinforced internally by ribs, which ribs are also used to position the legends inside the handle.

It is a further object to provide exterior ribs on the handle of transparent material so designed as to perform the triple function of reinforcing the handle, providing a grip for the user's hand on the handle, and providing a lens for enlarging the legends of the printed matter carried within the handle and positioned by the internal ribs.

It is a further object to provide such a transparent handle with either a strip or a sleeve of material carrying legends, which material is held in position by a block that performs the triple function of closing the open end of the handle, supporting the tool, and positioning and anchoring against displacement of the printed legend on the inside of the handle.

It is an additional object of this invention to provide a groove or angularly disposed recess for retaining a legend within a handle with an arcuate body of transparent plastic material having optical properties so that the legend appears to be enlarged when viewed from the exterior of the handle.

In the drawings:

Figure 1 is a side elevation of the handle and one end of the screw driver imbedded in the handle plug;

Figure 2 is a section on the line 2—2 of Figure 1, looking in the direction of the arrows;

Figure 3 is a section on the line 3—3 of Figure 1, looking in the direction of the arrows;

Figure 4 is a section on the line 4—4 of Figure 1, looking in the direction of the arrows;

Figure 5 is a side elevation of a modified form of the handle, showing an enlarged lens section for extra large enlargement of the reading mat-

ter. It also shows the use of an internally disposed cylinder of paper or cardboard upon which the printing has been imbedded;

Figure 6 is a section on the line 6—6 of Figure 5;

Figure 7 is a section on the line 7—7 of Figure 5;

Figure 8 is a side elevation of a modified form of reinforced handle, which reinforcing is used to position the reading matter;

Figure 9 is a section on the line 9—9, looking in the direction of the arrows in Figure 8;

Figure 10 is a side elevation of another modification of the handle;

Figure 11 is a section on the line 11—11 of Figure 10, looking in the direction of the arrows;

Figure 12 is a side elevation of a further modification of the handle construction, showing the utilization of reinforcing ribs which also act as positioning ribs for the legend bearing material;

Figure 13 is a section on the line B—B, looking in the direction of the arrows, of Figure 12;

Figure 14 is a side elevation of a modified form of the handle, in which there is a cylindrical reinforcement on the interior of the handle, in association with reinforcing ribs extending to the exterior cylindrical body of the handle; and

Figure 15 is a section on the line 15—15 of Figure 14, looking in the direction of the arrows.

Referring to the drawings in detail, 1 is the shaft of a screw driver or any other tool which is imbedded within the moulded plug 2 that has an enlarged head 3, a shoulder 4 and a tapered plug portion 5. This tapered plug portion fits within a correspondingly tapered opening having a tapered mouth 6 in the handle body 7. This handle body has a closed end 8 at one end and an open end at the other, which is closed by the plug 2. This plug may be sealed in position by an adhesive 9. The plug is also preferably cut away, as at 10, to receive the legend strip 11, against the end of which abuts the shoulder 12 on the plug 2. Thus the plug acts not only as a support for the tool 1, but also as a means of attaching the tool to the handle 7 and for holding in position the legend strip 11 to prevent its outward movement.

This legend strip may be of any desired material, upon which any type of printing is applied, either for the purpose of placing the name of the user inside the handle, the name of the manufacturer or instructions as to the use of the tool. This plug may be permanently anchored by the adhesive 9 or it may be detachably anchored due

to its wedging fit between the tapered engaging surfaces or it may be threaded in position.

The handle itself is provided with a hollow interior 13 which may or may not be used as a container for small tools, screws and the like.

The plug and the handle are both made of transparent plastics which have optical properties comparable to glass. However, the usual plastic is not as clear as glass and it lacks power of sharp and clear definition. To overcome this problem in connection with plastics, we use ribs 14 separated by grooves 15 on the exterior of the handle. The outer surfaces of these ribs, at 16, are arcuate so that a lens-like structure, as at 17, is provided over the legend strip 11.

The legend strip, in Figures 1, 2 and 3, is anchored between the dovetail walls 18 of the dovetail slot 19 cut on the interior of the handle. The shoulder 12 of the plug 2 prevents the strip 11 from leaving this slot. Longitudinally and inwardly tapered walls 18 prevent the strip 11 from dropping down into the space 13 inside of the handle.

If desired, the end 20 of the plug may be used to engage a cylinder 21 of printable material which carries the legend; in which event (see Figs. 5 to 7), the printed matter is preferably arranged beneath an extra large rib 22 which acts as an enlarging lens for the legend printed on the cylinder 21.

Referring to Figures 8 to 15, these modifications show the legend strip 11 maintained in position with its edges engaging the side walls of the interiorly disposed reinforcing ribs 23. When three ribs are employed, there is formed a triangular space 24 within the handle, and the corners of which space engage the edges of the strip 11. Thus the ribs reinforce the handle and, at the same time, position the strip beneath the lens 22, which also acts as an external reinforcing rib.

In Figures 12 and 13, these ribs 23 do not meet at the center. There is a series of these ribs, as at 25, which act as reinforcing members inside of the handle and also as positioning supports for the legend strip 11. In Figures 14 and 15, the ribs 26 extend partway into the center of the handle and terminate in an annular reinforcement 27.

It will be understood that we desire to comprehend within our invention such modifications as come within the scope of the claims and the invention.

Having thus fully described our invention, what we claim as new and desire to secure by Letters Patent is:

1. In combination, a tool handle of transparent material having a plurality of spaced longitudinal ribs with arcuate external faces, means on the inside of said handle for positioning a legend strip beneath one of said ribs so that the legend is enlarged by the lens effect of the rib.

2. In combination, a tool handle of transparent material having a plurality of spaced longitudinal ribs with arcuate external faces, means on the inside of said handle for positioning a legend strip beneath one of said ribs so that the legend is enlarged by the lens effect of the rib, and means for supporting a tool in one end of said handle.

3. In combination, a tool handle of transparent

material having a plurality of spaced longitudinal ribs with arcuate external faces, means on the inside of said handle for positioning a legend strip beneath one of said ribs so that the legend is enlarged by the lens effect of the rib, and means for supporting a tool in one end of said handle, said means being so arranged as to prevent the legend strip from moving longitudinally out of said handle.

4. In combination, a tool handle of transparent material having a plurality of spaced longitudinal ribs with arcuate external faces, means on the inside of said handle for positioning a legend strip beneath one of said ribs so that the legend is enlarged by the lens effect of the rib, means for supporting a tool in one end of said handle, said means being so arranged as to prevent the legend strip from moving longitudinally out of said handle, and means on the interior of said handle for engaging with the edges of said legend strip to position the legend strip against the interior wall of said handle.

5. In combination, a transparent tool handle, means forming a lens on the side wall of said handle, means on the interior of the handle for holding a legend strip against the interior wall of the handle beneath the lens, and a legend strip so held.

6. In combination, a transparent tool handle, a lens rib mounted on the exterior of said handle, means on the interior of the handle for reinforcing the handle and for positioning and supporting a legend strip beneath said lens rib.

7. In combination, a transparent tool handle, ribs mounted on the exterior of said handle at least one of which comprises a lens; means on the interior of the handle for reinforcing the handle and for positioning and supporting a legend strip beneath said lens rib, and means comprising a tapered plug adapted to close one end of said handle, support a tool and position said strip against longitudinal movement.

8. In combination, a transparent tool handle, ribs mounted on the exterior of said handle at least one of which comprises a lens; means on the interior of the handle for reinforcing the handle and for positioning and supporting a legend strip beneath said lens rib, and means comprising a tapered plug adapted to close one end of said handle, support a tool and position said strip against longitudinal movement, said reinforcing means comprising a plurality of radially disposed ribs within said handle.

9. In combination, a transparent tool handle, ribs mounted on the exterior of said handle at least one of which comprises a lens; means on the interior of the handle for reinforcing the handle and for positioning and supporting a legend strip beneath said lens rib, means comprising a tapered plug adapted to close one end of said handle, support a tool and position said strip against longitudinal movement, said reinforcing means comprising a plurality of radially disposed ribs within said handle, and a cylindrical reinforcing member centrally disposed of said ribs within said handle.

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ALFRED P. ALBRECHT.

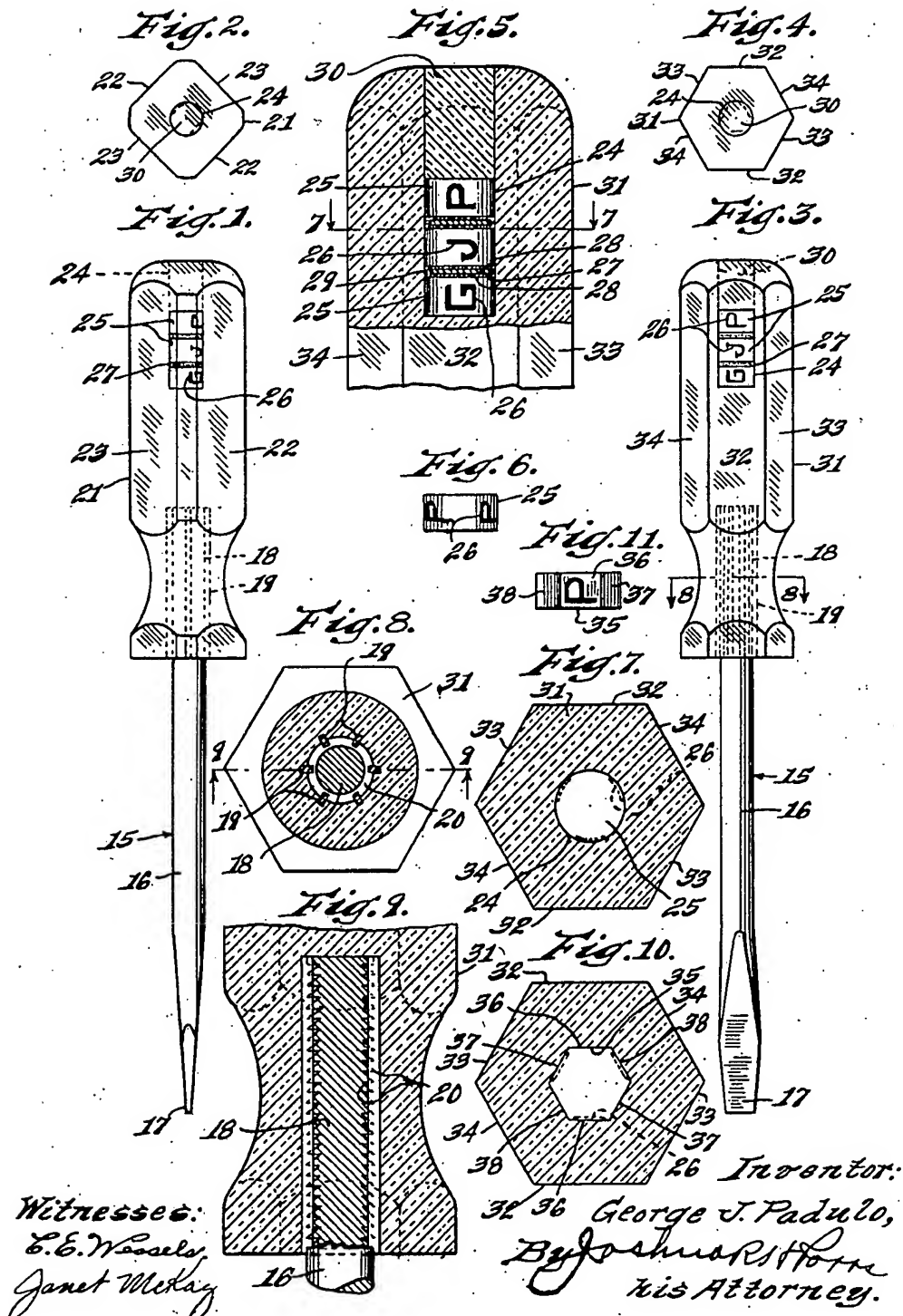
Oct. 10, 1939.

G. J. PADULO

2,175,481

IDENTIFYING TOOL HANDLE

Filed Sept. 8, 1938



## UNITED STATES PATENT OFFICE

2,175,481

## IDENTIFYING TOOL HANDLE

George J. Padulo, Chicago, Ill.

Application September 8, 1938, Serial No. 228,878

10 Claims. (Cl. 40—19)

This invention relates to identifying tool handles designed to signify the ownership of a tool:

An object of the invention is to provide a novel and simple means of identifying the ownership of a tool by suitable indicia or characters, preferably the initials of the name or other identifying mark or monogram of the owner, and being such that it will not become marred and will remain readily and clearly visible and readable from different sides of the handle at all times and will not become loose or displaced to interfere with the reading thereof and cannot be easily tampered with.

Other objects and advantages will appear and be brought out more fully in the following specification, reference being had to the accompanying drawing, wherein:

Fig. 1 is a side elevation of a tool shown in the form of a screw driver with an identifying handle in accordance with the invention;

Fig. 2 is a plan view thereof;

Fig. 3 is an elevation of another form of the invention;

Fig. 4 is a plan view of the device shown in Fig. 3;

Fig. 5 is an enlarged central longitudinal section of one end of the handle showing the identifying structure;

Fig. 6 is an edge view of one of the discs carrying the identifying characters;

Fig. 7 is an enlarged cross section taken on the line 7—7 of Fig. 5;

Fig. 8 is an enlarged cross section taken on the line 8—8 of Fig. 5;

Fig. 9 is a fragmentary longitudinal section taken on the line 9—9 of Fig. 8;

Fig. 10 is a view similar to Fig. 7 of the device shown in Figs. 3 and 4; and

Fig. 11 is an edge elevation of one of the plugs used in the latter construction.

Referring more particularly to the drawing, 15 is a tool which may be of any character but which for purposes of illustration is shown consisting of a screw driver including a shank 16 having a bit or tool portion 17 and having the end portion 18 of the shank provided with longitudinal fins or ribs 19 and spiral or other transverse ribs or threads 20 designed to anchor the same within the handle 21. This handle is preferably cast or molded of some clear, transparent, colorless or colored plastic or thermoplastic material or condensation product, and particularly from material which is fireproof and of heat and electrical insulating material. The handle is polysided and, as shown in Figs. 1 and 2, has a substantially rectangular or square cross section with opposite

faces 22 and 23. The handle is provided centrally and axially from one end with a deep cylindrical bore 24 designed to receive against the end wall thereof, a plurality of plugs or discs 25 shown in this form as cylindrical and superposed facewise one upon the other. These plugs may be composed of the same material as the handle or may be of some contrasting material or color and may be transparent, translucent or opaque, such as white plugs with contrasting characters 26 composing a monogram or simply the initials of the name of the owner and each plug or disc preferably carrying a single character or letter as shown. In other words, the plugs instead of being of the same material as the handle may be of a contrasting material but the characters thereon must be of a contrasting material with respect to the material of the handle and of the plugs. In order to secure the plugs in position, they may be frictionally held in the bore by engagement with the wall thereof or glued or caused to otherwise adhere to and be held against rotation as well as endwise movement in the bore. By way of illustration, the plugs may be held in position by suitable discs 27 illustrated as interposed between the plugs, these discs being very thin and of some suitable transparent, colored and similar or contrasting material or some adhesive substance or adhesive coated substance which will adhere to the opposite faces of the plugs as well as to the wall of the bore as indicated at 28. As shown, this adhesive is disposed on opposite faces of the discs and also at the edge portions thereof as indicated at 29 so as to adhere to the interior wall of the bore. When these plugs are inserted in the bore, the characters will be readily visible through the opposite faces 22, although they may be provided in line with the faces 23. Preferably, the identifying letters or characters are provided upon diametrically opposite sides, but more especially so as to be visible at alternate sides of the handle. The relation will depend upon the cross sectional shape of the handle. They are then held in position by a cylindrical outer plug 30 preferably of the same material as the handle so as to be comparatively invisible or at least not readily discernible, while still retaining the plugs with the characters thereon in position and being frictionally or adhesively held in position so that the joint between the walls can hardly be noticed. This material or plug 30 may be applied while hard or in a soft plastic state so as to harden and join or weld with the material of the handle substantially as a single unitary structure.

The manner of viewing the initials as shown in

Fig. 5 is taken looking normal to the walls or sides 22, whereas Fig. 1 is a view looking at the beveled corners.

In the form shown in Figs. 3, 4, 6 and 7, the structure of the tool is the same except that the handle 31 is shown of hexagonal cross section having three sets of opposite faces alternating as shown at 32, 33 and 34. In this instance, the plugs 25 are provided with three sets of characters 26 so that in certain positions, two sets of characters are visible as shown in Fig. 6. When looking toward the alternate faces, the characters will be viewed as shown in Fig. 3.

In Figs. 10 and 11 of the drawing, the structure is the same, except that the bore 35 is hexagonal or the same cross section as the handle and the opposite pairs of walls 36, 37 and 38 of the bore will fit correspondingly numbered walls of the plugs with the characters located in the same relation as described in connection with Figs. 3, 4, 6 and 7.

From the foregoing, it will be apparent that the letters may be printed, raised or depressed so long as they contrast with the handle, but they may contrast with the plugs in order to be readily visible and yet will not become marred to interfere with the convenient reading thereof.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. An identifying tool handle of a transparency having a bore, superposed discs disposed face to face in the bore, and a plug in and entirely closing the outer end of the bore, the first discs bearing characters on their edges forming the lateral walls of the discs contrasting with the material of the handle.

2. An identifying tool handle of a transparency having a bore, flat cylindrical plugs disposed face to face in the bore, and a deep imperforate plug in the outer end of the bore, said deep plug being invisible when in position in the handle, the first plugs bearing contrasting letters collectively forming the initials of a person's name.

3. An identifying tool handle of a transparency having a bore, flat polysided plugs disposed face to face in the bore, a plug in the outer end of the bore, and characters on certain of the first plugs visible at different angles.

4. An identifying tool handle of a transparency having a bore, plugs disposed in superposed relation face to face in the bore and bearing each a character forming an identifying mark to-

gether, a plug in the outer end of the bore, said plug being of the same material as the handle, and means adhesively securing the first named plugs in position and against turning, and said plugs bearing letters.

5. In combination with a tool handle of transparent plastic material having a bore in the end thereof remote from the tool, a plurality of plugs superposed facewise and each bearing identifying initials, discs between said plugs and having means to secure the same together and to the wall of the bore, and a retaining plug in the bore against the aforesaid plugs with the end thereof flush with the end of the handle.

6. In combination with a polysided tool handle of transparent plastic material having a bore in the end thereof remote from the tool, a plurality of plugs bearing identifying initials, adhesive discs between said plugs to secure the same together and to the wall of the bore, and a retaining plug in the bore against the aforesaid plugs with the end thereof flush with the end of the handle, the initials on the plugs being located so as to be visible through a plurality of faces of the handle.

7. In a tool, a polysided transparent handle provided with a hole axially thereof, at one end, plugs in the hole with a plurality of spaced initials thereon visible through a plurality of sides of the handle, and a plug in the outer end of the hole against the outer of the first-named plugs invisible through the material of the handle securing the aforesaid plugs in the hole.

8. An identifying tool handle having a hole and a transparent wall, plugs superposed on one another and held against movement in the hole and having a series of corresponding related characters spaced apart on their lateral walls contrasting with said wall, and another plug free of characters in the hole against the adjacent plug and securing said first plugs in position.

9. An identifying tool handle of a transparency having a bore in one end, plugs disposed face to face in the bore and another plug in the end of the bore, said first named plugs being of the same material as the handle and bearing contrasting characters on their peripheral edges identifying ownership by a certain person and the second named plug corresponding to the transparency of the handle and being invisible.

10. A tool handle of transparent material having a bore in one end, a plurality of discs superposed facewise to each other and each bearing a plurality of identifying initials on their edges in spaced relation, means to secure the discs in position in the bore, and a hard retaining plug of transparent material secured in the bore against the discs and rendering the joint between it and the wall of the bore indiscernible.

GEORGE J. PADULO.



Oct. 17, 1939.

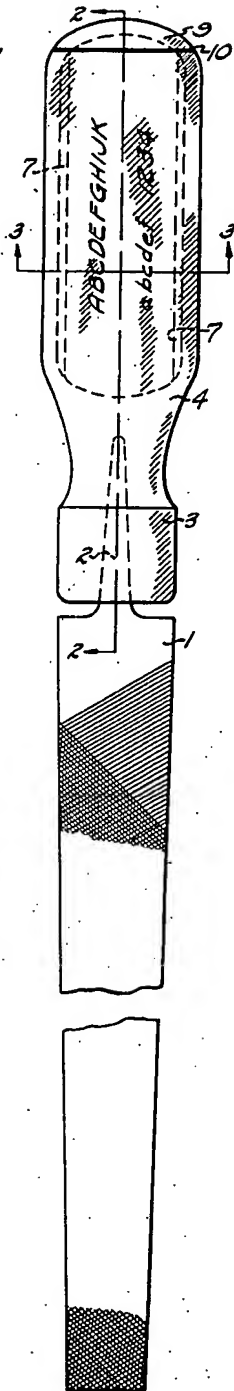
A. P. ALBRECHT

2,176,698

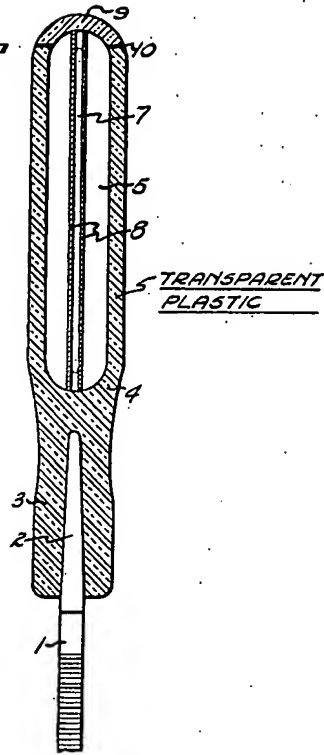
HANDLE FOR TOOL

Filed June 20, 1938

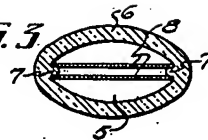
**Fig. 1**



**Fig. 2**



**Fig. 3**



INVENTOR:  
ALFRED P. ALBRECHT  
BY *[Signature]*  
ATTORNEYS.



## UNITED STATES PATENT OFFICE

2,176,698

## HANDLE FOR TOOL

Alfred P. Albrecht, Wilmington, Ohio, assignor to  
The Irwin Auger Bit Company, Wilmington,  
Ohio, a corporation of Ohio

Application June 20, 1938, Serial No. 214,720

5 Claims. (Cl. 40—19)

My invention relates to handles for tools.

It is the object of my invention to provide a tool handle, particularly for screw drivers, files and the like, that is made of molded transparent material such as of transparent plastics, which handle is flattened in order to provide for a requisite grip.

It is an object to provide a hollow handle with a replaceable end cover therefor, said handle being so arranged as to support sheets bearing legends that can be observed through the sides of the handle.

It is a further object to so arrange the sides of the handle as to form lenses for enlarging the legends to make them more legible.

It is a particular object to provide a hollow handle, oval in cross section, having positioning beads on the interior thereof for positioning a plurality of legend bearing plates, said plates being held in position by the end cover of the hollow handle.

It is an object to provide a handle which will not rotate in the hands of a user.

It is an object to provide a handle, in which the instructions, identification marks or advertising legends may be observed through the side walls of the handle.

In the drawing:

Figure 1 is a side elevation of the tool and handle;

Figure 2 is a section on the line 2—2 of Figure 1, looking in the direction of the arrows; and

Figure 3 is a section on the line 3—3 of Figure 1, looking in the direction of the arrows.

Referring to the drawing in detail, 1 represents a tool such as a file having a shank 2 which is molded within the throat 3 of the handle 4. This handle is made of thermoplastic material or any other similar type of resins which are transparent, moldable and have the requisite strength and optical properties.

The handle proper is hollow, as at 5, its walls comprising opposed arcuate portions 6, at the juncture of which on the inside of the handle are beads 7 for positioning the vertically disposed, separated, legend-bearing plates 8. The handle is generally oval in cross section in order to provide a substantially flat, but comfortable grip for the hand of the user.

The open end of the handle is provided with an enclosed cap 9 which is preferably cemented in place by cement 10.

It will be understood that the handle is molded so as to firmly grip the shank 2 of the tool 1. After the handle is molded with a hollow interior

5, the legend plates 8 are inserted and then the cap 9 is applied, which firmly anchors the plates in position.

It will be understood that I desire to comprehend within my invention such modifications as come within the scope of the claims and the invention.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent is:

1. In combination, a tool, a tool handle molded thereon comprising a relatively flat body having arcuate side walls, a legend sheet mounted therein, and means for retaining said legend sheet in position in said handle, said means comprising a cap enclosing the open end of the handle and engaging said legend sheet and means on the interior of said handle adapted to engage with the edges of said legend sheet to retain it in position.

2. In combination, a tool, a tool handle molded thereon comprising a relatively flat body having arcuate side walls, a legend sheet mounted therein, and means for retaining said legend sheet in position in said handle, said means comprising a cap enclosing the open end of the handle and engaging said legend sheet, and positioning ribs on the interior of said handle adapted to engage with the edges of said legend sheet.

3. In combination, a tool, a hollow molded handle thereon having arcuate side walls, internally disposed ribs in said handle oppositely disposed from one another at the juncture of said arcuate side walls, legend plates positioned by said ribs and the interior of said arcuate side walls, and a cap for said hollow handle to close it adapted to engage the ends of said legend plates.

4. In combination, in a tool handle, of a solid throat portion and a hollow handle portion relatively flattened having arcuate side walls, means comprising projections within said hollow handle adapted to position spaced parallel legend plates, spaced parallel legend plates, and a cap adapted to engage the ends of said plates and to retain them in said hollow handle.

5. A handle for a tool or the like comprising a solid throat portion, a hollow portion having arcuate side walls, a legend sheet mounted therein, and means for retaining said sheet in position in said handle, said means comprising a cap for the end of said hollow handle and internally disposed flanges adapted to engage with the edges of said legend sheet to maintain it in place.

ALFRED P. ALBRECHT.

Jan. 16, 1940.

A. P. ALBRECHT

2,187,192

TOOL HANDLE

Original Filed April 16, 1937

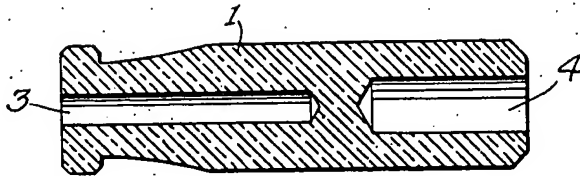


Fig. 1

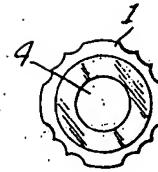


Fig. 2

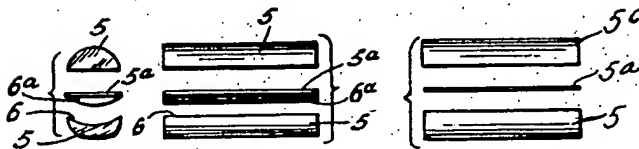


Fig. 3

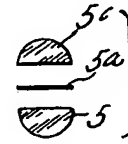


Fig. 4

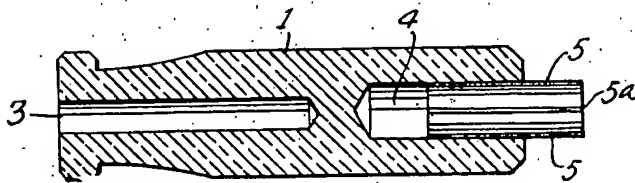


Fig. 5

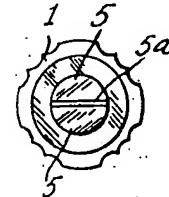


Fig. 6

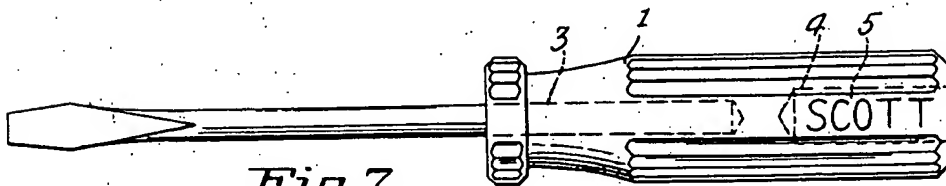


Fig. 7



Fig. 7a.



Fig. 7b.



Fig. 9.

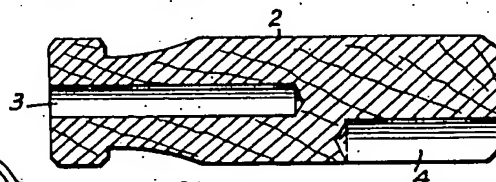


Fig. 8.

INVENTOR.

ALFRED P. ALBRECHT.

BY

ATTORNEY.

## UNITED STATES PATENT OFFICE

2,187,192

## TOOL HANDLE

Alfred P. Albrecht, Wilmington, Ohio, assignor  
to The Irwin Auger Bit Company, Wilmington,  
Ohio, a corporation of Ohio

Application April 16, 1937, Serial No. 137,299  
Renewed June 14, 1939

5 Claims. (Cl. 40-10)

This invention relates to improvements in tool handles, as handles for screw drivers, awls, gimlets, etc.

The invention consists in such tool handles made of transparent material, such as synthetic resin or glass, and having an interior surface on which is inscribed or printed the name of the manufacturer and the initials or name of the owner or user of the particular tool.

And the invention further consists in making the handle of such transparent material in one piece for the handle proper, and of a separate piece or pieces for an insert bearing the name of the manufacturer and the name or initials of the owner or user.

And the invention also extends to forming such transparent tool handle with its socket to receive the label-insert and the label insert itself made of two, or a plurality of, pieces adapted to receive between the pieces a label of paper or other thin material on which to inscribe the name of the manufacturer and the name or initials of the user or owner; preferably the name of the manufacturer on one side of such label and the name or initials of the owner or user on the other side.

And the invention extends to forming the transparent handle with the shank of the tool positioned to be within the handle, the handle being cast or otherwise formed around such shank to make an efficient and simple but durable connection between the handle and the tool.

And finally, the invention further consists of a modified handle made of non-transparent material, as wood, but with open portions to permit seeing an insert, preferably of some attractive color, the name of the manufacturer and the initials or name of the owner being inscribed on the insert and visible through the opening in the outer part of the handle.

In the accompanying drawing,

Figure 1 is a longitudinal sectional view of the handle proper.

Figure 2 is an elevation of the handle looking into the socket for the label-insert.

Figure 3 is a side elevation of the label-insert comprised of two pieces.

Figure 4 is an end view of such insert showing the cross-sectional shape of each half.

Figure 5 is a longitudinal sectional view of the handle with the label-insert partially in the socket.

Figure 6 is an end view of the handle and the label-insert.

Figure 7 is a side elevation of the completed

tool, both handle and screw driver, the handle being transparent and thus showing one side of the name label.

Figure 7a is a perspective of the label-strip showing one side thereof inscribed with the name of the owner or user of the tool.

Figure 7b is a like view but showing the other side of the label-strip inscribed with "Mfg. Co.", the blank being for the name of the manufacturer.

Figure 8 is a longitudinal sectional view of a modified handle made of wood, and showing also an open recess or socket for receiving a label-insert.

Figure 9 is an end view of such wooden handle showing also the socket which receives the label-insert.

Figure 10 is a side elevation of the two parts constituting the label-insert and the label itself.

Figure 11 is an end view of these two parts of the label-insert.

Referring to the drawing, the transparent handle 1, made of synthetic resin or glass, or other transparent material is shown in Figures 1, 5, and 7, and the modified or wooden handle 2 is shown in Figure 8.

The physical features of the handle, whether made of synthetic resin or glass or other suitable transparent material, are substantially the same, such as the handle socket 3 and label insert socket 4, shown particularly in Figures 1, 5, and 7; and as shown in Figure 8 when the handle is made of wood.

The position of the label insert is substantially in the center of the transparent handle as shown at 4 in Figures 1, 5, and 7; while in the modification where the handle is made of wood, as shown in Figures 8 and 9, the insert socket is in the nature of a recess in the periphery of the handle.

It will be seen from Figure 2, an elevation of the rear end of the handle shown in Figure 1, that the socket 4 is ready to receive the transparent label insert 5 which is made of two pieces, segmental in cross-section as seen in Figures 3 and 4. Then in Figures 5 and 6 these inserts have been assembled with the handle and placed partially or wholly in the socket 4. Between these transparent inserts 5, 5, I place the label 5a which is made of any suitable material such as paper or a thin strip of metal. When the handle is of transparent material, the legends on this label are shown (Figures 7a and 7b), one side of the label bearing the name or initials of the user or owner of the tool, say for instance, "Scott", as in Figure 7a, and the other side of

the label bearing the legend "—— Mfg. Co." (the word "Mfg." to be preceded by the name of the manufacturing company), as shown in Figure 7b. The handle being transparent these labels and their legends will easily be seen as indicated in Figure 7. By giving the handle a turn about half a circle, the user can read the name of the manufacturer or the name or initials of the owner or user.

10 When the handle is made of wood or other opaque material, the handle is finished as seen in Figures 8 and 9. In Figures 8 and 9 the socket 4 is located in one side portion of the handle rather than in the center.

15 Referring to Figures 10 and 11, it will be seen that the label-insert is made of two parts 5, 5, one part having a concave depression 8 and that the label proper 5a is convex on one side as at 8a, to correspond with the concave depression 8. These parts 5, 5 are made of transparent material, so that one may see the inscription on label 5a by looking at the exposed side.

Where the handle is made transparent, as in Figure 7, the legends are seen through the handle as "Scott" for the name of the owner or user of the tool; or "MRD" where the initials are used; and, of course, where the name of the manufacturer is on the label it, too, will show through the transparency of the handle. But where the handles are opaque, or say of wood, then the observation is not through the handle but through the exterior of the label inserts as seen, for instance, in Figure 8.

It will also be understood that the handle may be cast around the shank of the tool, or that the handle will be bored to receive the shank of the tool, after the handle has been otherwise made. An example of this is shown in Figure 8, while in Figure 7 it will be understood that the synthetic resin or glass handles are cast around the shank of the tool to connect the tool with the handle.

Referring to the parts of the label-insert designated 5, 5, in the several figures, it is to be understood that they are inserted in the socket 4 of the handle, together with the label proper 5a between them. Generally the purchaser of one of the tools here in question is shown the handle and the two inserts, as also the label proper. He takes the parts and after he has applied the leg-

ends on the label proper, he places the label proper, which is made of paper, between the halves of the insert. Then he inserts the inserts with the label proper between them into the socket in the handle. If they fit tightly they will remain. If there is any looseness, the purchaser will coat the inserts with an adhesive and then make the insertion.

I desire to comprehend within my invention such modifications as may be embraced within the claims and the scope of the invention.

Having thus fully described my invention, what I claim is new and desire to secure by Letters Patent, is:

1. In an article of manufacture, a transparent tool handle having a tool secured thereto and extending therefrom, a socket in the other end, transparent inserts occupying said socket, and a label proper adapted to bear legends and carried between the inserts and read through the transparency of the handle and the inserts.

2. In an article of manufacture, a transparent tool handle having a tool secured thereto and extending therefrom, a socket in the other end, a transparent insert composed of two parts, occupying said socket, and a label proper held between the two parts of the insert and having legends readable through the transparency of the handle and the insert parts.

3. In an article of manufacture, a transparent handle, a socket therein, a two-part transparent insert occupying said socket and a label adapted to be sustained between the parts of the said insert.

4. In an article of manufacture, a transparent handle, a socket therein, a two-part transparent insert occupying said socket, and a label adapted to be sustained between the parts of said insert and having legends on each side thereof, said legends being readable through the transparency of the handle and the insert parts.

5. In an article of manufacture, a tool handle having a tool secured thereto and extending therefrom, a socket in the other end, a two-part label-insert in said socket, and a label proper bearing legends and situated between the insert members, said label-inserts and said label proper being visible from the outside of the handle.

ALFRED P. ALBRECHT.



①⑨ BUNDESREPUBLIK  
DEUTSCHLAND



DEUTSCHES  
PATENTAMT

⑫ **Offenlegungsschrift**  
⑩ **DE 42 07 581 A 1**

⑤① Int. Cl.<sup>5</sup>:  
**B 62 B 5/00**  
B 62 B 5/06

②① Aktenzeichen: P 42 07 581.5  
②② Anmeldetag: 10. 3. 92  
②③ Offenlegungstag: 17. 9. 92

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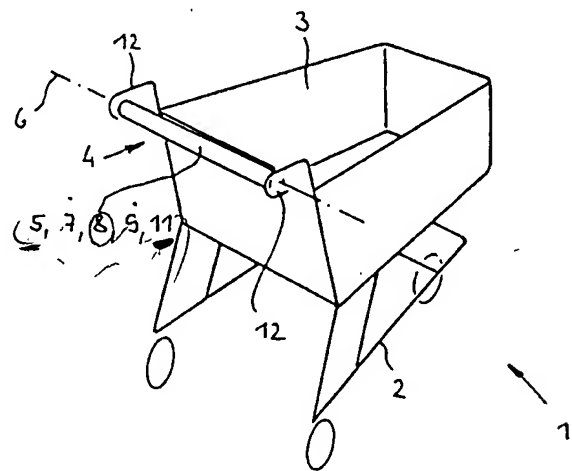
③⑩ Innere Priorität: ③② ③③ ③①  
16.03.91 DE 91 03 257.1

⑦① Anmelder:  
Wanzl GmbH & Co Entwicklungs-KG, 8874 Leipheim,  
DE

⑦② Erfinder:  
Wanzl, Rudolf, 8874 Leipheim, DE

⑤④ Transportwagen, insbesondere Einkaufswagen

⑤⑦ Die Erfindung betrifft einen Transportwagen (1), insbesondere einen Einkaufswagen, mit einem Fahrgestell (2), mit wenigstens einer Abstellfläche (3), z. B. in Form eines Behälters und/oder einer Ladeplattform, und mit einer Schiebeeinrichtung (4) in Form eines mit einem durchsichtigen Material bedeckten Handgriffes (5), der einen rohr- oder profilförmigen Querschnitt aufweist, wobei, vom durchsichtigen Material abgedeckt, ein im wesentlichen über die gesamte Länge des Handgriffes (5) sich erstreckendes, bedrucktes oder unbedrucktes, blattförmiges Einlege-  
teil (8) angeordnet und ein Informationsträger (11) vorgesehen ist, auf dem die zur Identifizierung des Transportwagens (1) erforderlichen Informationen wie Baujahr, Typbezeichnung usw. angebracht sind.  
Das Wesen der Erfindung besteht darin, daß der Informationsträger (11) durch das Einlege-  
teil (8) gebildet ist.



DE 42 07 581 A 1

Fig. 1

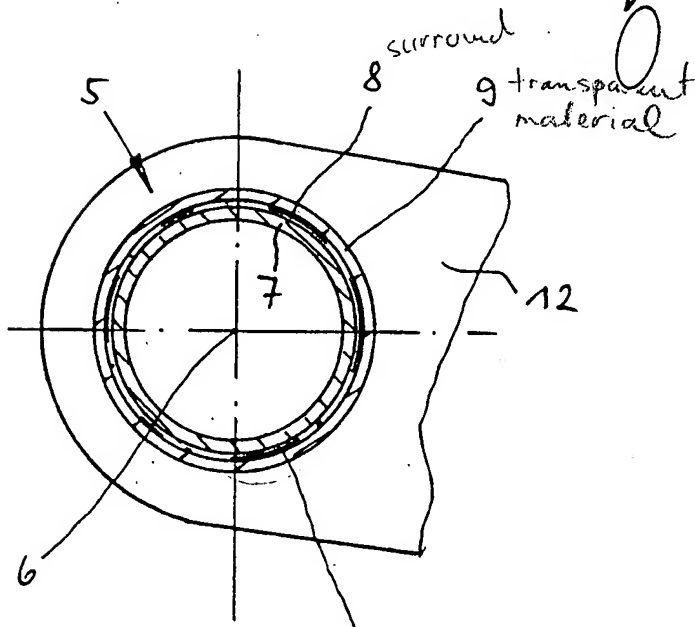
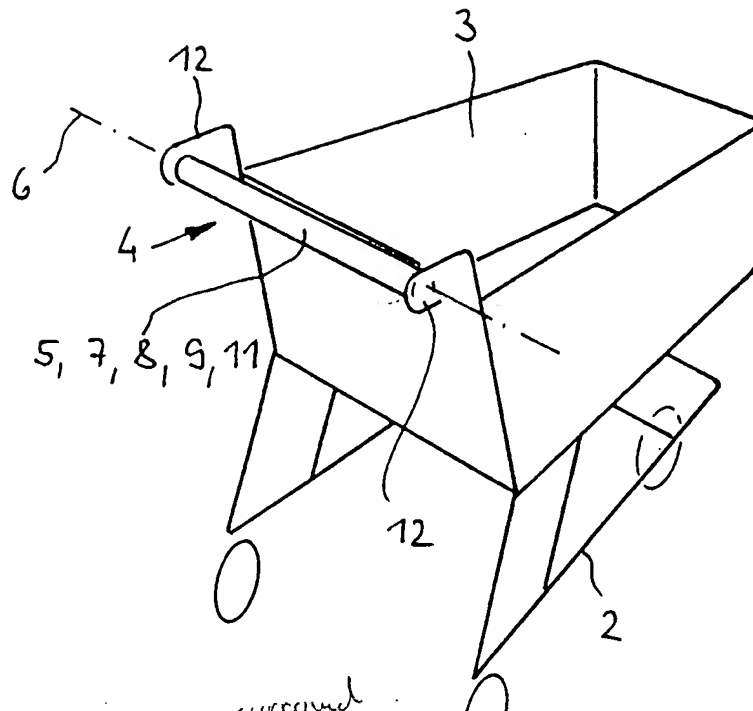


Fig. 2

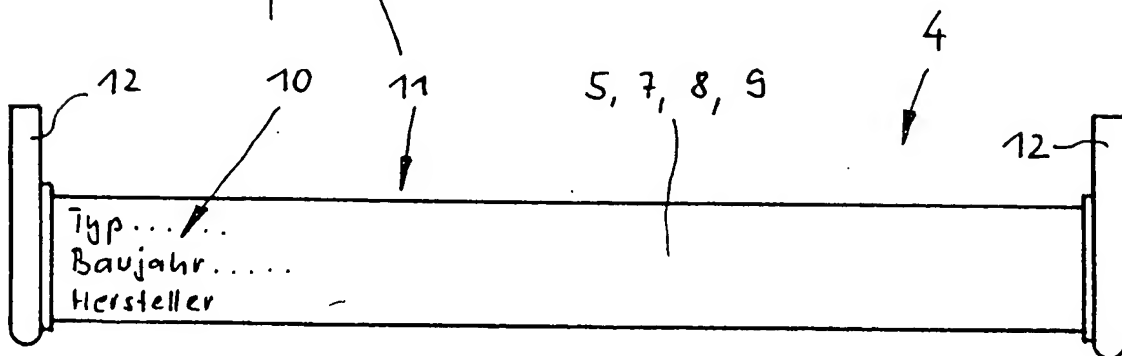


Fig. 3

PUB-NO: DE004207581A1

DOCUMENT-IDENTIFIER: DE 4207581 A1

TITLE: Shopping trolley - has information carrier  
under transparent cover of push handle

PUBN-DATE: September 17, 1992

INVENTOR-INFORMATION:

NAME

WANZL, RUDOLF

COUNTRY

DE

ASSIGNEE-INFORMATION:

NAME

WANZL ENTWICKLUNG GMBH

COUNTRY

DE

APPL-NO: DE04207581

APPL-DATE: March 10, 1992

PRIORITY-DATA: DE04207581A ( March 10, 1992)

INT-CL (IPC): B62B005/00, B62B005/06

EUR-CL (EPC): B62B005/06 ; B62B003/14

ABSTRACT:

The shopping trolley (1) has a chassis (2), a basket and/or a load platform

(3), and a tubular push handle (5), partly/completely covered by a transparent

material. This covers a full-length printed insert (8). The insert incorporates an information lable (11), for information necessary to identify

the trolley, e.h. year of construction, type, etc. The information may be

printed, or be provided on an adhesive lable, on one of the two sides of the

handle. ADVANTAGE - Very cheap information carrier.